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09/692,765	10/19/2000	Thomas E. Saulpaugh	5181-65700	8734

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EXAMINER

PATEL, ASHOKKUMAR B

ART UNIT	PAPER NUMBER
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2154

DATE MAILED: 10/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

9/3

Office Action Summary	Application No. 09/692,765	Applicant(s) SAULPAUGH ET AL.	
	Examiner Ashok B. Patel	Art Unit 2154	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 July 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Application Number 09/692, 765 was filed on 10/19/2000. Claims 1-48 are subject to examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-11, 14-24, 27-33 and 36- 46 are rejected under 35 U.S.C. 102(e) as being anticipated by Bass et al. (hereinafter Bass) (US 6, 549, 956)

Referring to claim 1,

The reference teaches a method for handling events in a distributed computing environment (col.1, line 63 through col.2, line 3 and col.3, lines 6-9, "The domains may be two separate corporations acting as business partners. Each domain represents a separate and distinct network of computers within the corporations Intranet. The two domains communicate via the Internet 11."), comprising:

receiving a message in a data representation language (col.3, lines 43-50) sent to a client platform in the distributed computing environment from a service in the distributed computing environment, wherein the message includes a data representation language representation of an event generated by the service (col.2,

lines 4-9, lines 15-31, Note: The reference teaches” For transport across the network, the inventive channel adapters convert the event information into a format acceptable by the network. The delivered information is then reconverted back into the event format for use in the other domain.” Thereby the reference discloses that an event (message) can be represented in any data representation language and will be converted back into the event format for use in the other domain (a client platform)); and

 sending the data representation language representation of the event to one or more processes registered to receive the event from the service (col.2, lines 9-15, “Likewise, a process adapter can subscribe to an event type from a channel adapter that is listed on an event type list from its peer channel adapter. When an event is received via the channel adapter and re-published into the domain, the subscribing process adapter will receive the event.”)

Referring to claim 2,

The reference teaches the method as recited in claim 1, further comprising;

 receiving a data representation language schema on the client platform, wherein said data representation language schema defines a message interface for a set of events generated by the service; and

 generating an event message endpoint for the client platform according to the data representation language schema, wherein said receiving a message and said sending the data representation language representation of the event to one or more processes are performed by the event message endpoint.(col.3, lines 43-50, col.4, lines 43 through col.5, line 15, col.2, lines 4-15, “Each channel adapter is initialized with

a set of events it will export to its peer at the other domain. The two channel adapters handshake with these sets of events. Process adapters within each domain can then publish events of the exported type and expect the event to be carried to the other domain via the network protocol. Likewise, a process adapter can subscribe to an event type from a channel adapter that is listed on an event type list from its peer channel adapter. When an event is received via the channel adapter and re-published into the domain, the subscribing process adapter will receive the event.” Thereby the reference teaches that each channel adapter is initialized with a set of events it will export to its peer at the other domain and they handshake with sets of events even though they are in a completely different domains (receiving a data representation language schema on the client platform, wherein said data representation language schema defines a message interface for a set of events generated by the service). Thereby the reference also teaches” Process adapters within each domain can then publish events of the exported type and expect the event to be carried to the other domain via the network protocol. Likewise, a process adapter can subscribe to an event type from a channel adapter that is listed on an event type list from its peer channel adapter. When an event is received via the channel adapter and re-published into the domain, the subscribing process adapter will receive the event” (generating an event message endpoint for the client platform according to the data representation language schema, wherein said receiving a message and said sending the data representation language representation of the event to one or more processes are performed by the event message endpoint.))

Referring to claim 3,

The reference teaches the method as recited in claim 2, further comprising the event message endpoint subscribing to one or more of the set of events generated by the service, wherein the service is configured to send messages including data representation language representations of an event to subscribers to the event when the event is generated. (col.3, lines 43-50).

Referring to claim 4,

The reference teaches the method as recited in claim 2, wherein the data representation language message from the service includes an authentication credential for the service, the method further comprising the event message endpoint using the authentication credential for the service to authenticate the data representation language message as being from the service. (col.4, line 57 through col.5, line 15).

Referring to claim 5,

The reference teaches the method as recited in claim 2, further comprising the event message endpoint verifying type correctness of the data representation language message according to the data representation language schema subsequent to said receiving a message. (col.2, lines 24-27, col.3, lines 45-50).

Referring to claim 6,

The reference teaches the method as recited in claim 2, wherein the data representation language schema defines a set of messages that the service may send to the event message endpoint, the method further comprising the event message endpoint verifying the correctness of the data representation language message from

the service according to the data representation language schema. (col.2, lines 24-27, col.3, lines 45-50).

Referring to claim 7,

The reference teaches the method as recited in claim 2, further comprising each of the one or more processes registering interest in one or more of the set of events generated by the service with the event message endpoint subsequent to said generating an event message endpoint. (Fig.1, col. 4, line 43 through col.5, line15).

Referring to claim 8,

The reference teaches the method as recited in claim 7, wherein said registering interest in one or more of the set of events comprises each of the one or more processes providing an event handler callback method to the event message endpoint; wherein said sending the data representation language representation of the event to one or more processes registered to receive the event from the service(col.4, line 57-60, Note: Thereby the reference teaches that the processes as well as the adapters are configured to do the claimed element.) comprises:

the event message endpoint calling an event handler method of each process registered with the event message endpoint to the event; and the event message endpoint passing the data representation language representation of the event to each called event handler (col.3, lines 22-50, Note: The channel adapters are capable of executing the task as claimed.)

Referring to claim 9,

The reference teaches the method as recited in claim 7, further comprising:

a process unregistering interest in a first event of the service; and the event message gate unsubscribing to the first event with the service subsequent to said unregistering; wherein the service is further configured to not send messages including data representation language representations of the first event to event message endpoints that are unsubscribed to the first event. (col.4, line57 through col.5, line 15).

Referring to claims 10 and 11,

The reference teaches the method as recited in claim 2, further comprising receiving the data representation language schema of the service in a service advertisement of the service.(col.3, lines 43-50, col.4, lines 43 through col.5, line 15, col.2, lines 4-15, "Each channel adapter is initialized with a set of events it will export to its peer at the other domain. The two channel adapters handshake with these sets of events. Process adapters within each domain can then publish events of the exported type and expect the event to be carried to the other domain via the network protocol. Likewise, a process adapter can subscribe to an event type from a channel adapter that is listed on an event type list from its peer channel adapter. When an event is received via the channel adapter and re-published into the domain, the subscribing process adapter will receive the event.", and wherein the one or more processes are executing within the client platform (Fig.1, element 18 and 19).

Referring to claim 14,

Claim 14 is a claim to the device configured for carrying out the steps of method of claim 1. Therefore, claim 14 is rejected for the reasons set forth for claim 1.

Referring to claim 15,

Claim 15 is a claim to the device configured for carrying out the steps of method of claim 2. Therefore, claim 15 is rejected for the reasons set forth for claim 2.

Referring to claim 16,

Claim 16 is a claim to the device configured for carrying out the steps of method of claim 5. Therefore, claim 16 is rejected for the reasons set forth for claim 5.

Referring to claim 17,

Claim 17 is a claim to the device configured for carrying out the steps of method of claim 6. Therefore, claim 17 is rejected for the reasons set forth for claim 6.

Referring to claim 18,

Claim 18 is a claim to the device configured for carrying out the steps of method of claim 10. Therefore, claim 18 is rejected for the reasons set forth for claim 10.

Referring to claim 19,

Claim 19 is a claim to the device configured for carrying out the steps of method of claim 3. Therefore, claim 19 is rejected for the reasons set forth for claim 3.

Referring to claim 20,

Claim 20 is a claim to the device configured for carrying out the steps of method of claim 4. Therefore, claim 20 is rejected for the reasons set forth for claim 4.

Referring to claim 21,

Claim 21 is a claim to the device configured for carrying out the steps of method of claim 7. Therefore, claim 21 is rejected for the reasons set forth for claim 7.

Referring to claim 22,

Claim 22 is a claim to the device configured for carrying out the steps of method of claim 8. Therefore, claim 22 is rejected for the reasons set forth for claim 8.

Referring to claim 23,

Claim 23 is a claim to the device configured for carrying out the steps of method of claim 9. Therefore, claim 23 is rejected for the reasons set forth for claim 9.

Referring to claim 24,

Claim 24 is a claim to the device configured for carrying out the steps of method of claim 11. Therefore, claim 24 is rejected for the reasons set forth for claim 11.

Referring to claim 27,

The reference teaches a device, comprising;

a processor; a memory coupled to said processor (Fig.1-3);

a service process Configured to:

generate an event;

generate a message in a data representation language, wherein the message includes a data representation language representation of the event generated by the service process(col.2, lines 4-9, lines 15-31, Note: The reference teaches" For transport across the network, the inventive channel adapters convert the event information into a format acceptable by the network. The delivered information is then reconverted back into the event format for use in the other domain." Thereby the reference discloses that an event (message) can be represented in any data representation language and will be converted back into the event format for use in the other domain (a client platform)); and

send the message to one or more event message gate units (col.2, lines 9-15, "Likewise, a process adapter can subscribe to an event type from a channel adapter that is listed on an event type list from its peer channel adapter. When an event is received via the channel adapter and re-published into the domain, the subscribing process adapter will receive the event.") in the distributed computing environment(col.1, line 63 through col.2, line 3 and col.3, lines 6-9, "The domains may be two separate corporations acting as business partners. Each domain represents a separate and distinct network of computers within the corporations Intranet. The two domains communicate via the Internet 11.");

wherein each of the one or more event message gate units are operable to distribute the data representation language representation of the event sent in the message from the service process to one or more processes registered to receive the event from the service process (Fig.1, col.3, lines 5-50).

Referring to claim 28,

The reference teaches the device as recited in claim 27, wherein the device further comprises a service message gate unit, wherein said generating a message and said sending the message are performed by the service message gate unit on behalf of the service process (col.col.3, lines 22-25).

Referring to claim 29,

Claim 29 is a claim to the device configured for carrying out the steps of method of claim 2. Therefore, claim 15 is rejected for the reasons set forth for claim 2.

Referring to claim 30,

Claim 30 is a claim to the device configured for carrying out the steps of method of claim 6. Therefore, claim 30 is rejected for the reasons set forth for claim 6.

Referring to claim 31,

Claim 31 is a claim to the device configured for carrying out the steps of method of claim 10. Therefore, claim 31 is rejected for the reasons set forth for claim 10.

Referring to claim 32,

Claim 32 is a claim to the device configured for carrying out the steps of method of claim 3. Therefore, claim 32 is rejected for the reasons set forth for claim 3.

Referring to claim 33,

Claim 33 is a claim to the device configured for carrying out the steps of method of claim 4. Therefore, claim 33 is rejected for the reasons set forth for claim 4.

Referring to claim 36,

Claim 36 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 1. Therefore, Claim 36 is rejected for the reasons set forth for claim 1.

Referring to claim 37,

Claim 37 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 2. Therefore, Claim 37 is rejected for the reasons set forth for claim 2.

Referring to claim 38,

Art Unit: 2154

Claim 38 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 3. Therefore, Claim 38 is rejected for the reasons set forth for claim 3.

Referring to claim 39,

Claim 39 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 4. Therefore, Claim 39 is rejected for the reasons set forth for claim 4.

Referring to claim 40,

Claim 40 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 5. Therefore, Claim 40 is rejected for the reasons set forth for claim 5.

Referring to claim 41,

Claim 41 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 6. Therefore, Claim 41 is rejected for the reasons set forth for claim 6.

Referring to claim 42,

Claim 42 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement

Art Unit: 2154

the steps of method of claim 7. Therefore, Claim 42 is rejected for the reasons set forth for claim 7.

Referring to claim 43,

Claim 43 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 8. Therefore, Claim 43 is rejected for the reasons set forth for claim 8.

Referring to claim 44,

Claim 44 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 9. Therefore, Claim 44 is rejected for the reasons set forth for claim 9.

Referring to claim 45,

Claim 45 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 10. Therefore, Claim 45 is rejected for the reasons set forth for claim 10.

Referring to claim 46,

Claim 46 is a claim to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claim 11. Therefore, Claim 46 is rejected for the reasons set forth for claim 11.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 12, 13, 25, 26, 34, 35, 47 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bass et al. (hereinafter Bass) (US 6, 549, 956) in view of Meltzer et al. (hereinafter Meltzer) (US 6, 542, 912)

Referring to claims 12 and 13,

Keeping in mind the teachings of the reference Bass as stated above, the reference explicitly fails to teach wherein the event is a Java event and the data representation language is extensible Markup Language (XML). The reference Meltzer teaches "By translating the elements of the XML document into JAVA events or other programming structures that are suitable for use by the transaction processing front end of the respective nodes enables rich functionality at nodes utilizing the documents being traded." (col.14, lines 25-32). Thereby not only the reference teaches the claimed elements but provides the motivation to do so along with. Therefore, it would have been obvious to one having ordinary skill in the art at the time of invention was made to incorporate the teachings of Meltzer into the teachings of Bass such that the transaction process front end (channel adapters are configured to) is able to operate in a publish and subscribe architecture that enables the addition of new listener programs without

Art Unit: 2154

the knowledge of or impact on other listening programs in the system as taught by the reference.

Referring to claims 25, 26, 34 and 35,

Claims 25, 26, 34 and 35 are claims to the device configured for carrying out the steps of method of claims 12 and 13. Therefore, claims 25, 26, 34 and 35 are rejected for the reasons set forth for claims 12 and 13.

Referring to claims 47 and 48,

Claims 47 and 48 are claims to a computer readable carrier medium comprising program instructions, wherein the program instructions are computer-executable to implement the steps of method of claims 12 and 13. Therefore, Claims 47 and 48 are rejected for the reasons set forth for claims 12 and 13.

Conclusion

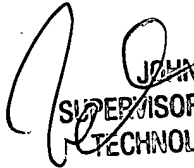
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok B. Patel whose telephone number is (703) 305-2655. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2154

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abp

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